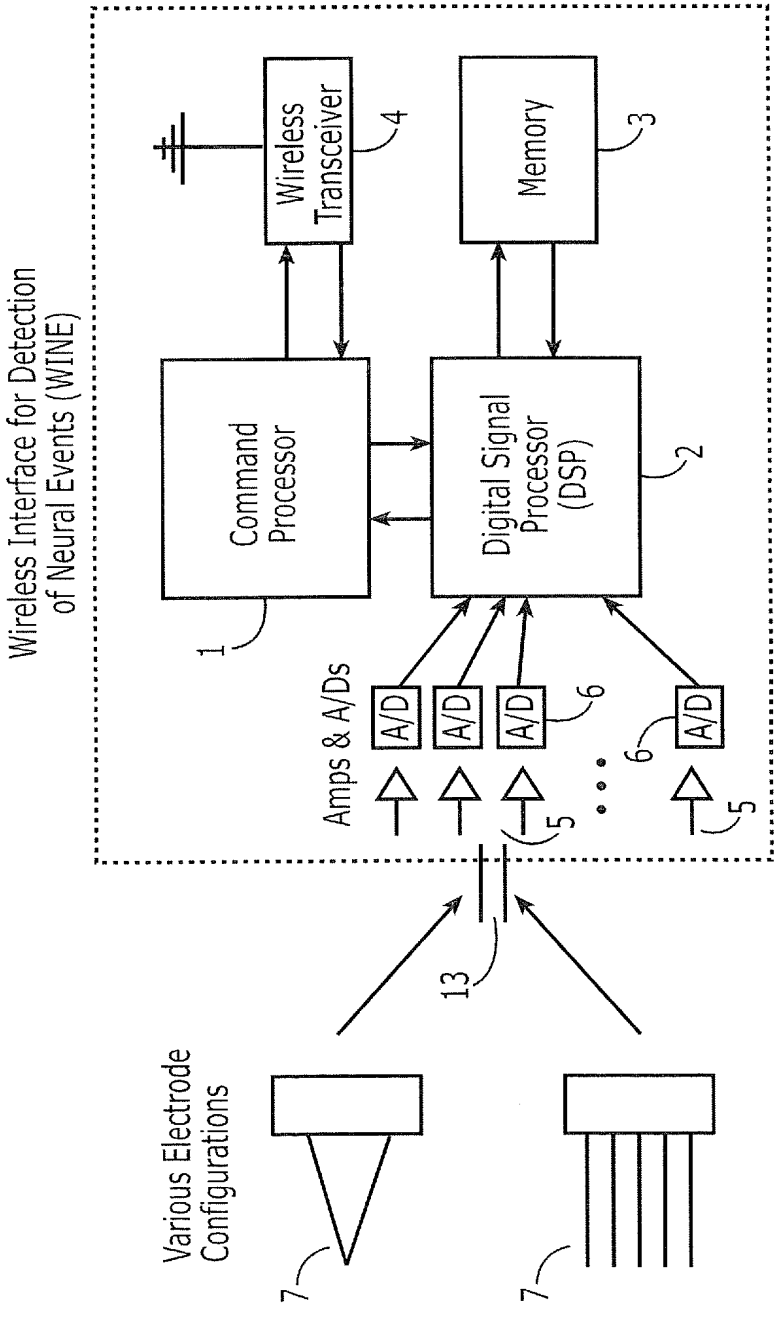
Wireless Interface for Detection of Neural Events (WINE)
Command Processor
1
Digital Signal Processor (DSP)
2
Memory
3
Wireless Transceiver
4
Amps & A/Ds
A/D
5
6
13
Various Electrode Configurations
7

FIG. 1

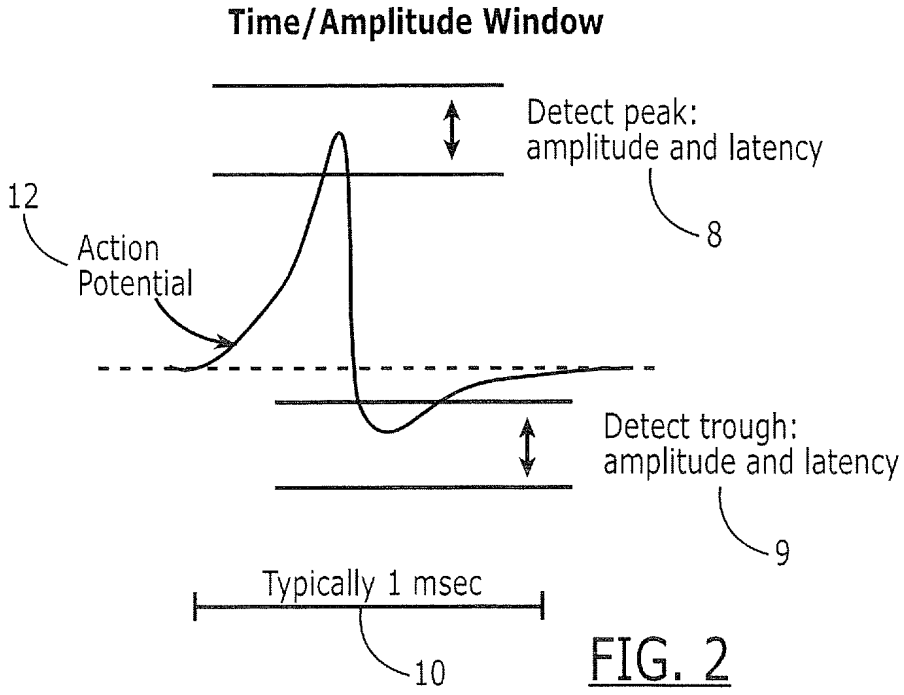
Time/Amplitude Window
Detect peak:
amplitude and latency
8
12
Action
Potential
Detect trough:
amplitude and latency
9
Typically 1 msec
10

FIG. 2

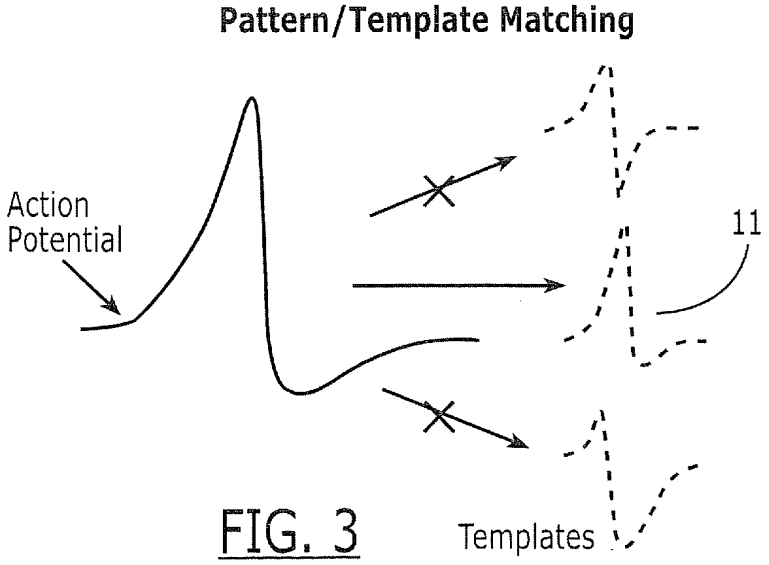
Pattern/Template Matching
Action
Potential
11
Templates

FIG. 3